

**Claim amendments:**

1. (Currently amended) A wireless extension for transmitting analog and digital television signals from one location to another comprising:

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a sending unit comprising:

a remote control interface for receiving a channel selection command;

at least one tuner for receiving both analog and digital television signals responsive to the remote control interface with an RF input and a tuner output;

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a digital demodulator for receiving the tuner output and producing a digital stream containing MPEG encoded program information;

an MPEG demultiplexer for receiving the MPEG information from the digital demodulator and selecting at least one MPEG program to produce a first MPEG stream;

an MPEG encoder receiving the tuner output and producing a second MPEG stream;

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a selector ~~responsive to the remote control interface~~ for selecting between the first MPEG stream and the second MPEG stream, wherein an active MPEG stream is selected;

a digital lock detector in the digital demodulator for detecting a digital signal lock condition;

an analog lock detector in the MPEG encoder for detecting an analog signal lock condition;

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control logic circuitry responsive to the digital lock detector and the analog lock detector with an output to the selector to select an active MPEG stream from the stream indicating a lock condition;

and

a modulator and transmitter for producing an RF signal to transmit the selected MPEG stream;

a receiving unit comprising:

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a receiver for receiving the RF signal; and

an MPEG demultiplexer/decoder for demultiplexing the desired program and converting the MPEG program to a signal suitable for driving a television receiver.

2. (Previously presented) The wireless extension of claim 1 further comprising:

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in the sending unit a means for encryption of the selected MPEG program; and

in the receiving unit a means for decryption of the received signal.

3. (Original) The wireless extension of claim 2 further comprising:

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a public key exchange wherein a public key is transmitted from the receiving unit to the sending unit.

4. (Original) The wireless extension of claim 1 further comprising:

10 in the receiving unit a conditional access unit that receives information to enable decoding of the MPEG program.

5. (Canceled)

15 6. (Previously presented) The wireless extension of claim 1 further comprising:

in the sending unit a programmable transmit power level circuit responsive to power level commands from the remote control.

20 7-14. (Canceled)